

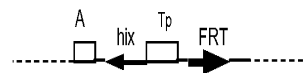
EXHIBIT A

Chromosomal integration of large designer DNA into *E. Coli*

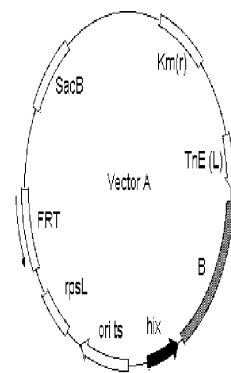


Figure 1. Components for DNA Integration

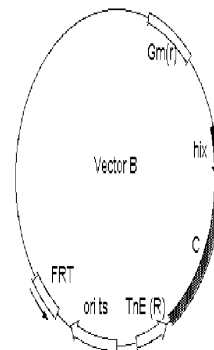
Receptor Strain



Vector A



Vector B



Integration/Excision:

Hix/hin

FRT/Flp

Tn1514- TnE(R/L)

Counter-selection:

rpsL streptomycin

sensitivity

SacB sucrose sensitivity

Antibiotic Selection:

Km kanamycin resistance

Tp trimethopim resistance

Gm gentamycin resistance

Plasmid loss selection:

ori ts temperature sensitive

replicon

Figure 2. Integration and Excision Scheme

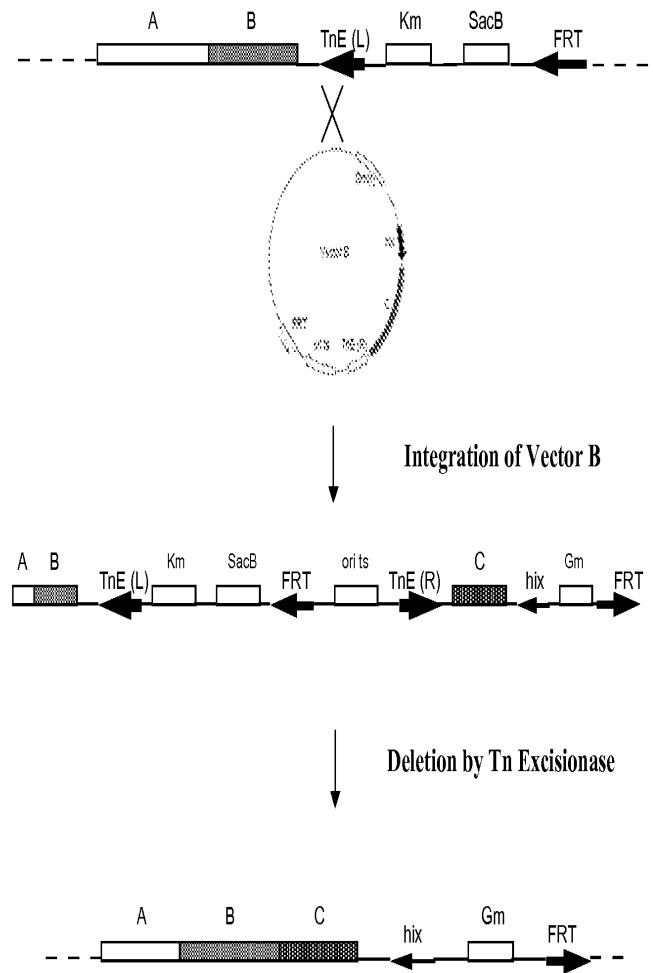
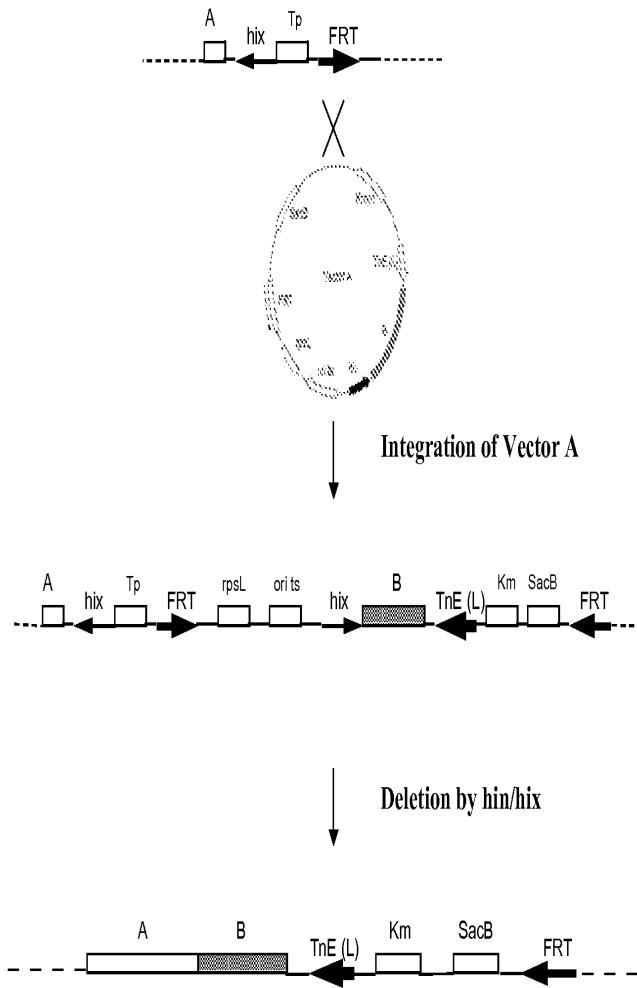


Figure 3. Construction of Receptor Strain

Susy McKay

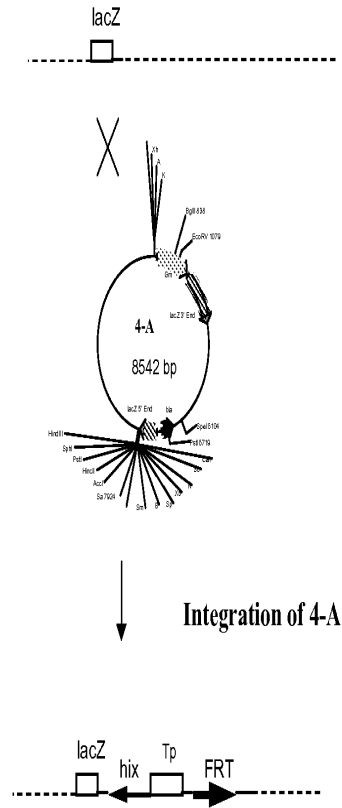
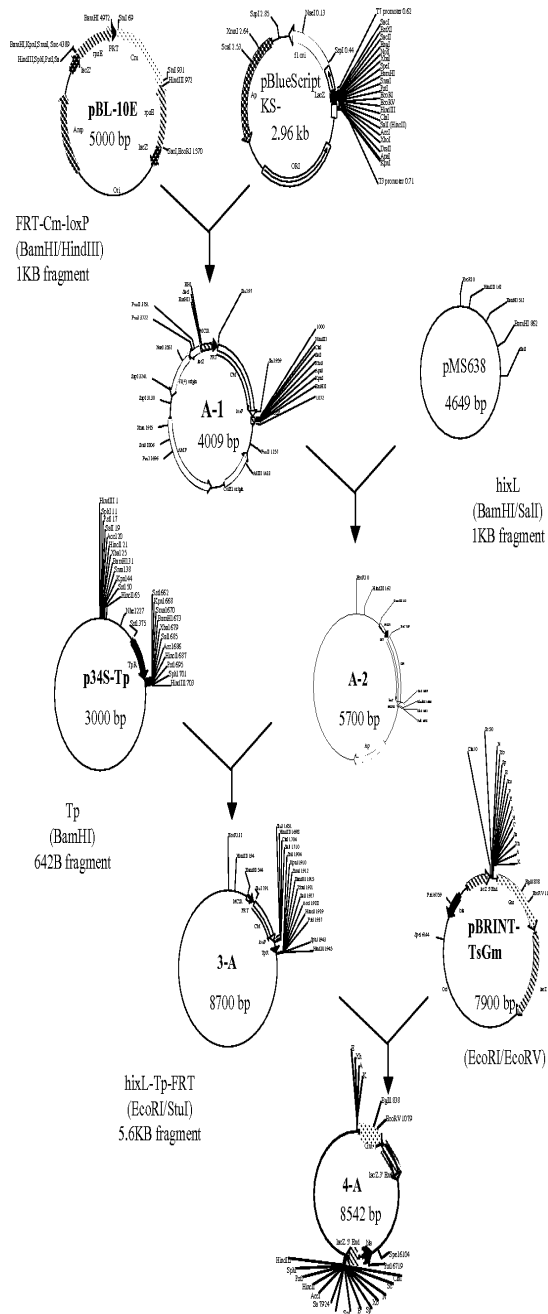


Figure 4. Construction of Vector A

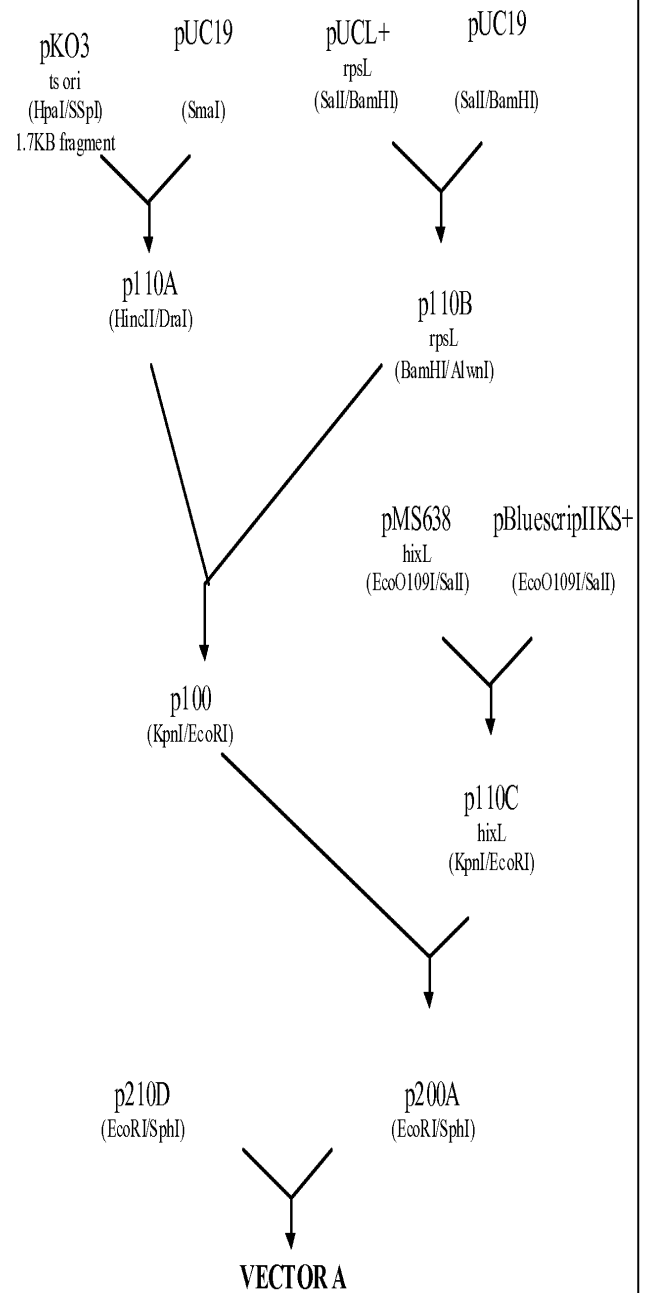
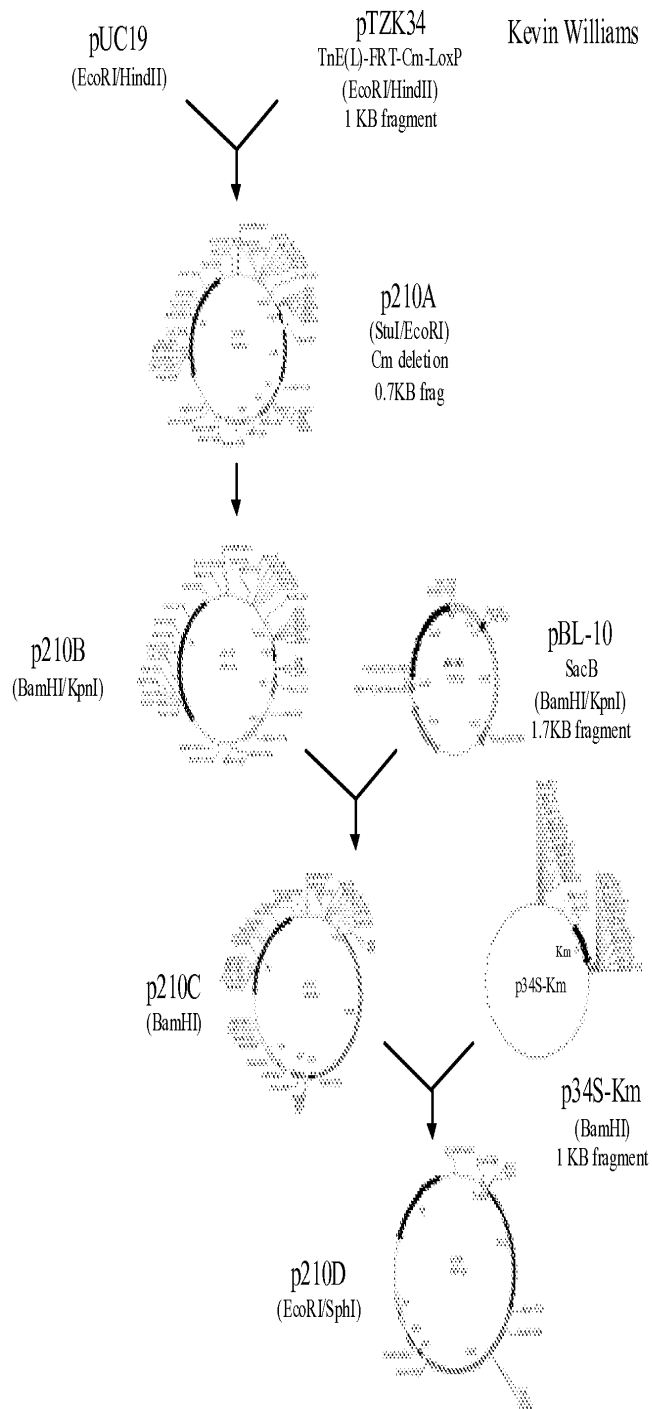


Figure 5. Construction of Vector B

